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[Marker Primary Antibody]

Rabbit Anti-SKA2/Cy3 Conjugated antibody

Catalog Number: SL7847R-Cy3

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-SKA2/Cy3
Immunogen:	KLH conjugated synthetic peptide derived from human SKA2
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted:Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit)
Background:	background: Ska2 (spindle and kinetochore associated complex subunit 2), also known as FAM33A, is a 121 amino acid component of the Ska1 complex, a microtubule-binding subcomplex of the outer kinetochore that is critical for proper chromosome segregation. The Ska1 complex is a component of the kinetochore-microtubule interface and directly associates with microtubules as oligomeric assemblies. Localized to the outer kinetochore and spindle microtubules during cell proliferation, Ska2 is essential for spindle checkpoint silencing and exit from mitosis. Downregulation of Ska2 leads to delayed recruitment of MAD2, a component of the mitotic spindle checkpoint, to several kinetochores resulting in occasional loss of individual chromosomes from the metaphase plate. Ska2 is encoded by a gene located on human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes. **Function:** Component of the SKA1 complex, a microtubule-bindingsubcomplex of the outer kinetochore that is essential for

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	properchromosome segregation. Required for timely anaphase onset duringmitosis, when chromosomes undergo bipolar attachment on spindlemicrotubules leading to silencing of the spindle checkpoint. TheSKA1 complex is a direct component of the kinetochore-microtubuleinterface and directly associates with microtubules as oligomericassemblies. The complex facilitates the processive movement ofmicrospheres along a microtubule in a depolymerization-coupledmanner. In the complex, it is required for SKA1 localization. **Subunit:** Component of the SKA1 complex, composed of SKA1, SKA2 andSKA3. Forms a heterodimer with SKA1; the heterodimer interactingwith SKA3. The core SKA1 complex is composed of 2 SKA1-SKA2heterodimers, each heterodimer interacting with a molecule of theSKA3 homodimer. The core SKA1 complex associates with microtubulesand forms oligomeric assemblies. Interacts directly with SKA1.Binds directly to microtubules; but with a much lower affinity thanSKA1. May interact with NR3C1; the relevance of such interactionremains unclear in vivo. **Subcellular Location:** Cytoplasm, cytoskeleton, spindle.Chromosome, centromere, kinetochore. Note=Localizes to the outerkinetochore and spindle microtubules during mitosis in a NDC80complex-dependent manner. Localizes to both the mitotic spindle andkinetochore-associated proteins. **Similarity:** Belongs to the SKA2 family. **Database links:** **Entrez Gene:** 348235 Human **Entrez Gene:** 66140 Mouse **Entrez Gene:** 287598 Rat **Entrez Gene:** 691962 Rat **SwissProt:** Q8WVK7 Human **SwissProt:** Q9CR46 Mouse **SwissProt:** Q5I0J4 Rat **Unigene:** 463607 Human **Unigene:** 45008 Mouse **Unigene:** 203397 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.